

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING  
NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES**

Applicant must file the items indicated below within the time period set the Office action to which the Notice is attached to avoid abandonment under 35 U.S.C. § 133 (extensions of time may be obtained under the provisions of 37 CFR 1.136(a)).

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998).
- 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked-up "Raw Sequence Listing."
- 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- 7. Other: See attached error report.

**Applicant Must Provide:**

- An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

PatentIn Software Program Support

Technical Assistance.....703-287-0200

To Purchase PatentIn Software.....703-306-2600

**PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR REPLY**



## STIC Biotechnology Systems Branch

### RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/591,632 C  
Source: 1F416  
Date Processed by STIC: 2/7/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT  
MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

## Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER:</u> <u>09/591,632C</u>
<b>ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE</b>		
1 <input type="checkbox"/> Wrapped Nucleic <input checked="" type="checkbox"/> Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <input checked="" type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input type="checkbox"/> Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <input type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input type="checkbox"/> Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped	
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <input type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <input type="checkbox"/> Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <input type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input type="checkbox"/> Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	



IFW16

RAW SEQUENCE LISTING DATE: 02/07/2006  
 PATENT APPLICATION: US/09/591,632C TIME: 09:01:23

Input Set : A:\34978a.txt  
 Output Set: N:\CRF4\02072006\I591632C.raw

*less & needs  
↙ 72 char/ln*

3 <110> APPLICANT: Lindquist, et al.  
 5 <120> TITLE OF INVENTION: RECOMBINANT PRION-LIKE GENES AND PROTEINS AND MATERIALS AND  
 6 METHODS COMPRISING SAME  
 8 <130> FILE REFERENCE: 30554/34978A  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/591,632C  
 C--> 10 <141> CURRENT FILING DATE: 2000-06-09  
 10 <150> PRIOR APPLICATION NUMBER: US 09/591,632  
 11 <151> PRIOR FILING DATE: 2000-06-09  
 13 <150> PRIOR APPLICATION NUMBER: US 60/138,833  
 14 <151> PRIOR FILING DATE: 1999-06-09  
 16 <160> NUMBER OF SEQ ID NOS: 70  
 18 <170> SOFTWARE: PatentIn version 3.3

*(see item 2 on  
Error*

*delete -  
these are summary  
not prior  
data. They  
are current data.*

## ERRORED SEQUENCES

429 <210> SEQ ID NO: 3  
 430 <211> LENGTH: 1427  
 431 <212> TYPE: DNA  
 432 <213> ORGANISM: Saccharomyces cerevisiae  
 434 <220> FEATURE:  
 435 <221> NAME/KEY: CDS  
 436 <222> LOCATION: (182)..(1246)  
 438 <400> SEQUENCE: 3  
 439 ctcgaggttg aaaagaatag caaaaatctt tcctttcaa acagctcatt tggaaattgtt 60  
 441 tatagcactg aattgaatcg aagaggaata aagatcccc gtacgaacct ctttatTTT 120  
 443 agttttcat tttttgttat tagtcatatt gtttaagct gcaaattaag ttgtacacca 180  
 445 a atg atg aat aac aac ggc aac caa gtg tcg aat ctc tcc aat gcg ctc 229  
 446 Met Met Asn Asn Asn Gly Asn Gln Val Ser Asn Leu Ser Asn Ala Leu  
 447 1 5 10 15  
 449 cgt caa gta aac ata gga aac agg aac agt aat aca acc acc gat caa 277  
 450 Arg Gln Val Asn Ile Gly Asn Arg Asn Ser Asn Thr Thr Asp Gln  
 451 20 25 30  
 453 agt aat ata aat ttt gaa ttt tca aca ggt gta aat aat aat aat aat 325  
 454 Ser Asn Ile Asn Phe Glu Phe Ser Thr Gly Val Asn Asn Asn Asn Asn  
 455 35 40 45  
 457 aac aat agc agt agt aat aac aat gtt caa aac aat aac agc ggc 373  
 458 Asn Asn Ser Ser Asn Asn Asn Val Gln Asn Asn Asn Ser Gly  
 459 50 55 60  
 461 cgc aat ggt agc caa aat aat gat aac gag aat aat atc aag aat acc 421  
 462 Arg Asn Gly Ser Gln Asn Asn Asp Asn Glu Asn Asn Ile Lys Asn Thr  
 463 65 70 75 80  
 465 tta gaa caa cat cga caa caa cag gca ttt tcg gat atg agt cac 469

*Does Not Comply  
Corrected Diskette Needed*

*pp 1,3,5-6,7*

RAW SEQUENCE LISTING DATE: 02/07/2006  
 PATENT APPLICATION: US/09/591,632C TIME: 09:01:23

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466	Leu	Glu	Gln	His	Arg	Gln	Gln	Gln	Ala	Phe	Ser	Asp	Met	Ser	His				
467																85			
																90			
																95			
469	gtg	gag	tat	tcc	aga	att	aca	aaa	ttt	caa	gaa	caa	cca	ctg	gag		517		
470	Val	Glu	Tyr	Ser	Arg	Ile	Thr	Lys	Phe	Phe	Gln	Gln	Pro	Leu	Glu				
471																100			
																105			
																110			
473	gga	tat	acc	ttt	tct	cac	agg	tct	gcg	cct	aat	gga	ttc	aaa	gtt		565		
474	Gly	Tyr	Thr	Leu	Phe	Ser	His	Arg	Ser	Ala	Pro	Asn	Gly	Phe	Lys	Val			
475																115			
																120			
																125			
477	gct	ata	gtt	cta	agt	gaa	ttt	cat	tat	aac	aca	atc	ttc	cta			613		
478	Ala	Ile	Val	Leu	Ser	Glu	Leu	Gly	Phe	His	Tyr	Asn	Thr	Ile	Phe	Leu			
479																130			
																135			
																140			
481	gat	ttc	aat	ctt	ggc	gaa	cat	agg	gcc	ccc	gaa	ttt	gtg	tct	gtg	aac		661	
482	Asp	Phe	Asn	Leu	Gly	Glu	His	Arg	Ala	Pro	Glu	Phe	Val	Ser	Val	Asn			
483																145			
																150			
																155			
485	cct	aat	gca	aga	gtt	cca	gct	tta	atc	gat	cat	ggt	atg	gac	aac	ttg		709	
486	Pro	Asn	Ala	Arg	Val	Pro	Ala	Leu	Ile	Asp	His	Gly	Met	Asp	Asn	Leu			
487																165			
																170			
																175			
489	tct	att	tgg	gaa	tca	ggg	gcg	att	tta	tta	cat	ttg	gtt	aat	aaa	tat		757	
490	Ser	Ile	Trp	Glu	Ser	Gly	Ala	Ile	Leu	Leu	His	Leu	Val	Asn	Lys	Tyr			
491																180			
																185			
																190			
493	tac	aaa	gag	act	ggt	aat	cca	tta	ctc	tgg	tcc	gat	gat	tta	gct	gac		805	
494	Tyr	Lys	Glu	Thr	Gly	Asn	Pro	Leu	Leu	Trp	Ser	Asp	Asp	Leu	Ala	Asp			
495																195			
																200			
																205			
497	caa	tca	caa	atc	aac	gca	tgg	ttg	ttc	tcc	aat	acg	tca	ggg	cat	gct		853	
498	Gln	Ser	Gln	Ile	Asn	Ala	Trp	Leu	Phe	Phe	Gln	Thr	Ser	Gly	His	Ala			
499																210			
																215			
																220			
501	cca	atc	ttt	gaa	caa	gat	tta	cat	ttc	aga	tac	tcc	cat	tca	caa	aag		901	
502	Pro	Met	Ile	Gly	Gln	Ala	Leu	His	Phe	Arg	Tyr	Phe	His	Ser	Gln	Lys			
503																225			
																230			
																235			
505	ata	gca	agt	gct	gtt	gaa	aga	ata	acg	gat	gag	ttt	aga	aga	gtt	tac		949	
506	Ile	Ala	Ser	Ala	Val	Glu	Arg	Tyr	Thr	Asp	Glu	Val	Arg	Arg	Val	Tyr			
507																245			
																250			
																255			
509	ggt	gtt	gag	atg	gcc	ttt	gtt	gct	gaa	cgt	aga	gaa	gct	gtt	atg		997		
510	Gly	Val	Val	Glu	Met	Ala	Leu	Ala	Glu	Arg	Arg	Glu	Ala	Leu	Val	Met			
511																260			
																265			
																270			
513	gaa	tta	gac	acg	gaa	aat	gct	gca	tac	tca	gct	ggt	aca	aca	cca		1045		
514	Glu	Leu	Asp	Thr	Glu	Asn	Ala	Ala	Tyr	Ser	Ala	Gly	Thr	Thr	Pro				
515																275			
																280			
																285			
517	atg	tca	caa	agt	cgt	ttt	gat	tat	ccc	gtt	tgg	ctt	gtt	gga	gtt		1093		
518	Met	Ser	Gln	Ser	Arg	Phe	Phe	Asp	Tyr	Pro	Val	Trp	Leu	Val	Gly	Asp			
519																290			
																295			
																300			
521	aaa	tta	act	ata	gca	gat	ttt	gtt	gcc	ttt	gtc	cca	tgg	aat	aat	gtc	gtt		1141
522	Lys	Leu	Thr	Ile	Ala	Asp	Leu	Ala	Phe	Val	Pro	Trp	Asn	Asn	Val	Val			
523																305			
																310			
																315			
525	gat	aga	att	ggc	att	aat	atc	aaa	att	gaa	ttt	cca	gaa	gtt	tac	aaa		1189	
526	Asp	Arg	Ile	Gly	Ile	Asn	Ile	Lys	Ile	Glu	Phe	Pro	Glu	Val	Tyr	Lys			
527																325			
																330			
																335			
529	tgg	acg	aag	cat	atg	atg	aga	aga	ccc	gcg	gtc	atc	aag	gca	ttt	cgt		1237	
530	Trp	Thr	Lys	His	Met	Met	Arg	Arg	Pro	Ala	Val	Ile	Lys	Ala	Leu	Arg			

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531	340	345	350				
533	ggta tga aggctgttt	aaaaacaaga	aagaaagaag	aaggaggaaa	1286		
534	Gly Gly						
537	agaagggtat aagggtatgt	atataggcag	acaaaaaggaa	aatattaatgt	caaataaaaa	1346	
539	caaaaatgtc	atagaagtat	ataatagttt	tgaaatttct	gttgcttcta	tttattcttt	1406
E--> 541	gttaccccaa ccacagaatt					1427	
724	<210> SEQ ID NO: 11					1426	
725	<211> LENGTH:	446	445				
726	<212> TYPE: DNA						
727	<213> ORGANISM: Artificial sequence						
729	<220> FEATURE:						
730	<223> OTHER INFORMATION: CUP1 promoter						
732	<400> SEQUENCE: 11						
733	ccattaccga catttggcg ctatacgtgc	atatgttcat	gtatgtatct	gtatTTaaaa	60		
735	cacttttgc ttatTTTcc	tcatatatgt	gtataggTTt	atacggatga	120		
737	acttcacccac cctttatttc	aggctgatAT	cttagccttg	ttacttagtt	gaaaaagaca	180	
739	tttttgcgt	cagtcaactgt	caagagatTC	tttgcgtgc	atttcttcta	gaagcaaaaa	240
741	gagcgatcg	tctttccgc	tgaaccgttc	cagaaaaaa	gaetaccaac	gcaatatgga	300
743	ttgtcagaat	catataaaaag	aagaagcaaa	taactccttg	tctgtatca	attgcattat	360
745	atatcttctt	gttagtgca	tatcatatag	aagtcatcg	aatagatatt	aagaaaaaca	420
E--> 747	aactgtacaa	tcaatcaatc	aatca			445	
3712	<210> SEQ ID NO: 45						
3713	<211> LENGTH:	7239	7238 (pp 5-6)				
3714	<212> TYPE: DNA						
3715	<213> ORGANISM: Artificial sequence						
3717	<220> FEATURE:						
3718	<223> OTHER INFORMATION: Vector containing chimeric gene						
3720	<400> SEQUENCE: 45						
3721	gacgaaaggc	cctcggtata	cgcctatTTT	tataggTTaa	tgtcatgata	ataatggTT	60
3723	cttaggacgg	atcgtttgcc	tgtacttac	acgcgcctcg	tatTTTTaa	tgatggata	120
3725	atTTggaaat	ttactctgt	tttatttt	tttatgtTTT	gtatTTggat	tttagaaagt	180
3727	aaataaaagaa	ggtagaagag	ttacggaaatg	aagaaaaaaa	aataaaacaaa	ggTTaaaaaa	240
3729	atttcaacaa	aaacgcgtact	ttacatataat	atttatttaga	caagaaaAGC	agattaaata	300
3731	gatatacatt	cgattaacga	taagaaaaat	gtaaaatcac	aggattttcg	tgtgtggct	360
3733	tctacacaga	caagatgaaa	caattcggca	ttaatacctg	agagcaggaa	gagcaagata	420
3735	aaaggtagta	tttggcgc	atccccctag	agtctttac	atcttcggaa	aacaaaaact	480
3737	atTTTTCTT	taatttctt	tttactttc	tatTTTTaa	ttatataattt	atattaaaaa	540
3739	atTTaaattt	taatttattt	tatagcacgt	gatggaaagg	accaggTgg	cactTTcgg	600
3741	ggaaatgtgc	gCGGAACCCC	tattttttta	tttttctaaa	tacattcaaa	tatgtatccg	660
3743	ctcatgagac	aataaccctg	ataaaatgtt	caataatatt	aaaaaggaa	gagtatgagt	720
3745	attcaacatt	tccgtgtgc	ccttattccc	tttttgcgg	cattttgcct	tctgttttt	780
3747	gctcaccac	aaacgcgtgt	gaaagtaaaa	gatgtcaag	atcgttggg	tgcacgagt	840
3749	ggttacatcg	aactggatct	caacagcggt	aagatcctg	agatTTTcg	ccccgaagaa	900
3751	cgttttccaa	tgtatggcac	ttttaaagt	ctgtatgt	gwgccgtatt	atcccgatt	960
3753	gacgccccggc	aagagcaact	cggtcgcgc	atacactatt	ctcagaatga	tttgcgttgag	1020
3755	tactcaccag	tcacagaaaa	gcatcttacg	gatggcatga	cagtaagaga	attatgcagt	1080
3757	gctgccataa	ccatgagtga	taacactcg	gccaacttac	ttctgacaac	gatcgagga	1140
3759	ccgaaggagc	taaccgcTTT	tttgcacaac	atggggatc	atgtactcg	cettgatcg	1200
3761	tggaaaccgg	agctgaatga	agccataacca	aacgacgagc	gtgacaccac	gatgcctgta	1260

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/591,632C

DATE: 02/07/2006  
TIME: 09:01:23

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Output Set: N:\CRF4\02072006\IS91632C.raw

3763	gcaatggcaa caacgttgcg caaaactatta	actggcgaac tacttactct	agttcccg	1320
3765	caacaattaa tagactggat ggaggcggat	aaagtgcag gaccactct	gcgtcg	1380
3767	cttccggctg gctggttat tgctgataaa	tctggagccg gtgagcgtgg	gtctcg	1440
3769	atcattgcag cactggggcc agatggtaag	ccctcccgta tcttagttat	ctacacgacg	1500
3771	gggagtcagg caactatgga tgaacgaaat	agacagatcg ctgagatagg	tgccctactg	1560
3773	attaaggcatt ggtaactgtc agaccaagg	tactcatata tacttttagat	tgatttaaaa	1620
3775	cttcatttt aattaaaaag gatcttagtg	aagatcctt ttgataatct	catgaccaaa	1680
3777	atcccctaac gtgagtttc gtccactg	gctcagacc ccgtagaaaa	gatcaaagg	1740
3779	tcttcttgag atccccctt tctgcgcgt	atctgctgtc tgcaaacaaa	aaaaccaccg	1800
3781	ctaccagcgg tggtttgtt gccggatcaa	gagctaccaa ctcttttcc	gaaggtact	1860
3783	ggcttcagca gagcgcagat accaaatact	gtccttctag ttagccgt	gttaggccac	1920
3785	cacttcaaga actctgttagc accgcctaca	tacctcgctc tgctaatct	gttaccagt	1980
3787	gtctgctcca gtggcgataa gtctgtgtt	acggggtttgg actcaagacg	atagttacgg	2040
3789	gataaggcgc agcgtcggg ctgaacgggg	ggttcgtgca cacagcccag	cttggagcga	2100
3791	acgacctaca ccgaacttag atacctacag	cgtagctat gagaagcgc	caegettccc	2160
3793	gaagggagaa aggccgacag gatatccgt	agccggcaggg tcggAACAGG	agagcgcacg	2220
3795	agggagcttc cagggggaaa cgccctggat	ctttatagtc ctgtcggtt	tcgcaccc	2280
3797	tgacttgagc gtgcattttt gtgtatgtcg	tcaggggggc ggacccatg	gaaaaacgcc	2340
3799	agcaacgcgg ccttttacg gtccctggcc	ttttgtgtgc ctttgtca	catgttctt	2400
3801	cctgcgttat cccctgattc tttggataaac	cgtattacg cttttagtg	agctgatacc	2460
3803	gtctgcgcga gccgaacgac cgagcgcacg	gagtcagtg	gctggaaagc	2520
3805	ccaatacgc aaccgcctc ccccgccgt	tggccgatc attaatgcag	ctggcagcac	2580
3807	aggtttcccg actgaaagc gggcagttag	cgcaacgc aaatgttgag	ttacactact	2640
3809	cattaggcac cccaggctt acactttatg	ttccggctc gtatgtgt	tggaaattgt	2700
3811	agcggataac aatttcacac agaaacagc	tatgaccatg attacgc	caaa gctcgg	2760
3813	aaccctact aaaggaaca aaagctgggt	accggggccc ccctcgaggt	cgacggtac	2820
3815	gataagctt atatcgaatt cccattaccg	acatttggc gctatacgt	tg catatgtca	2880
3817	tgtatgtatc tttttttttt acacttttgc	attattttc ctatatatg	tgtataggtt	2940
3819	tatacggatg atttaattat tacttca	cccttattt caggctgata	tcttagc	3000
3821	gttactagtt agaaaaagac atttttgtc	tcagtcactg tcaagagatt	ctttgtcgg	3060
3823	catttttttca agaagcaaaa agagcgatgc	gtttttccg ctgaaccgtt	ccagcaaaaa	3120
3825	agactaccaa cgcaatatgg attgtcagaa	tcatataaaa gagaagcaaa	taactcctt	3180
3827	tcttgtatca attgcattt aatatcttct	tgtttagtgca atatcatata	gaagtcatcg	3240
3829	aaatagatataaagaaaac aaactgtaca	atcaatcaat caatcaggat	ccatggatac	3300
3831	ggataagtttta atctcagagg ctgagtc	tttttctcaa ggaaccatg	cagaagctgt	3360
3833	tgcgaagttt acatccgcag ctcagtc	cccaatgac gagccaaatgt	caactattga	3420
3835	atcattaaatt caaaaaatcg caggatacgt	catggacaaac cgtatgtgt	gtatgtacgc	3480
3837	ctcgcaagat cgtgtgtcg ttgggtgtt	atctttatg aacactttaa	tggcagactc	3540
3839	taagggttct tcccaaaccgc aactaggaaa	actagtttgc ttggccacag	tgatgacaca	3600
3841	ctcatcaaaa taaaggttctt ctaacagagg	gtttgacgt	gggactgtca tgtaatgt	3660
3843	aagtgggttctt ggcggcgggaa gccaaatgt	gggtgtttcc ggcctggctg	ccttggctt	3720
3845	tcaatttttta aagtccgtt acaattccca	agtcagggaa caaggtcaag	gtcaagggtca	3780
3847	aggtcaagga caagggtcaag gtcaagggtt	ttttactgt	ttggcgtt tggcttcatc	3840
3849	tttcatgaat tccaaacaaca ataatcagca	aggtcaaaaat caaagctccg	gtggttctc	3900
3851	cattttggatca ctatgttctt tggcaagttt	ttttatgtat	tccaaataata atcagaactc	3960
3853	caacaatagt caacagggtt ataaccaatc	ctatcaaaa ggtaccaaaa	atagtcaagg	4020
3855	ttacaataat caacagtacc aaggtggcaa	cggtggttac caacaacaac	aggacaatc	4080
3857	tgggtgtgtt ttttttttttca tggcctccat	ggctcaatct tacttaggt	gtggacaaac	4140
3859	tcaatccaaac caacagcaat acaatcaaca	aggccaaaac aaccagcagc	aataccagca	4200

RAW SEQUENCE LISTING DATE: 02/07/2006  
 PATENT APPLICATION: US/09/591,632C TIME: 09:01:23

Input Set : A:\34978a.txt  
 Output Set: N:\CRF4\02072006\I591632C.raw

group	3861	acaaggccaa aactatcagc accaacaaca gggtcagcag cagcaacaag gccactccag	4260
9	3863	ttcatttca gcttggctt ccatggcaag ttctacatg ggcaataact ccaattcaa	4320
9	3865	tgcaggattat gggggccagc aacaggctaa tgatgtt agaccacaac acaatggta	4380
9	3867	acaacaatc aatqaqtaqg gaagaccgca atacggcgaa aaccagaact ccaatggaca	4440
B-->	3869	gcacgaatcc (tttaatttt) ctggcaacctt ttctcaacag aacaataacg gcaaccagaa	4500 4499
B-->	3871	ccgttacccg cggatggcta gcaaaaggaga agaactctc actggagttg tcccaattct	4560
B-->	3873	tgttgaatta gatggtgatg ttaatggca caaatttct gtcagtggag agggtaagg	4620
B-->	3875	tgtatcaaca tacgaaaaac ttacccttaa atttatttgc actactggaa aactacatgt	4680
B-->	3877	tccatggcca acacttgcac ctactttcac ttatgggtt cagtgcctt caagataaccc	4740
B-->	3879	ggatcatatg aaacccgcatg acttttcaaa gatgtccatg cccgaaggat atgtacagga	4800
B-->	3881	aagaactata ttttcaaaag atgacgggaa ctacaagaca cgtgctgaa tcaagtttga	4860
B-->	3883	agggtataacc ttgttataa gaatcgagtt aaaaggtatt gattttaaag aagatggaaa	4920
B-->	3885	cattcttggg cacaatttgg aatacaacta taactcacac aatgtataca tcattggcaga	4980
B-->	3887	caaacaaaag aatgaatca aagctaactt caaaatttaga cacaacattt aagatggaa	5040
B-->	3889	cgttcaacta gcagaccatt atcaacaaaa tactccaatt ggcatggcc ctgtccctt	5100
B-->	3891	accagacaac cattacatgt ccacacaatc tgcccttcg aaagatccc acaaaaaagag	5160
B-->	3893	agaccacatg gtccttcgtt agtttgcac agtgcgtggg attacacatg gcatggatga	5220
B-->	3895	actatacaaa tgagagctt aatgcgttccat atagtgcgtt gtattacaat tcactggccg	5280
B-->	3897	tcgttttaca acgtcgtgac tggaaaacc ctggcggttac ccaacttaat cgccctgcag	5340
B-->	3899	cacatcccc ttcgtccagc tggcgtaata gegaagaggc cggcacccat cgcccttccc	5400
B-->	3901	aacagttgcg cagctgttatc ggcgaatggc ggcacgcgcc ctgtacggcgc gcatggatgc	5460
B-->	3903	cggccgggtt ggtgttacg cgcagcgtga cccgttacact tgccagcgcc ctageggcccg	5520
B-->	3905	ctccttgc tttttccct tccttctcg ccacgttgc eggttccc cgtaaagctc	5580
B-->	3907	taaatcccc gtcctttta gggttcccgat ttatgttcc ttcgcaccc tttttttttt	5640
B-->	3909	aacttgatc ggggtatggg ttcacgttgc ggcacatccc ctgtatgcg gtttttgcgc	5700
B-->	3911	ttttgtatc ggggtatggg ttctttaata gttttttttt gttttttttt gttttttttt	5760
B-->	3913	tcaaccat ttcgttcat tttttttttt tataaggat tttttttttt tttttttttt	5820
B-->	3915	ggtaaaaaaa tgatgttgc tttttttttt tttttttttt tttttttttt tttttttttt	5880
B-->	3917	ttacaatttc ctgtatgcgtt tttttttttt tttttttttt tttttttttt tttttttttt	5940
B-->	3919	agggtataaa ctgtatataat taaaatttgc tttttttttt tttttttttt tttttttttt	6000
B-->	3921	ttacttataa tacatgtttt tttttttttt tttttttttt tttttttttt tttttttttt	6060
B-->	3923	ctgtttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	6120
B-->	3925	tttcaacaat aataatgtca gatcttgcgtt tttttttttt tttttttttt tttttttttt	6180
B-->	3927	gacccaaatgc gtccttcgtt tttttttttt tttttttttt tttttttttt tttttttttt	6240
B-->	3929	aacccatc tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	6300
B-->	3931	cgccatccat tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	6360
B-->	3933	atgacaattt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	6420
B-->	3935	gtttcaaccat tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	6480
B-->	3937	attctgttat tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	6540
B-->	3939	caaattttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	6600
B-->	3941	taactgttgc tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	6660
B-->	3943	ttttgggacc taatgttca actaacttca gtaatccctt ggtggatggc acatccatg	6720
B-->	3945	aagcacacaa gtttgggttgc tttttttttt tttttttttt tttttttttt tttttttttt	6780
B-->	3947	taggtatgttgc tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	6840
B-->	3949	tgcagggtttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	6900
B-->	3951	cactacat tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	6960
B-->	3953	tttccggatgat tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	7020
B-->	3955	aaaaaaatgtatc tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	7080
B-->	3957	ctgtatgcgtt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt	7140

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/591,632C

DATE: 02/07/2006

TIME: 09:01:23

Input Set : A:\34978a.txt

Output Set: N:\CRF4\02072006\I591632C.raw

B--> 3959 gggcttgctc gtcggcgca tccgcttaca gacaagctgt gaccgtctcc gggagctgca  
B--> 3961 tgtgtcagag gtttcacccg tcatcacccga aacgcgcga

7200

7239

has  
off

from sequence 39

09/59, 632C 7

gta aca gct gct ggg att aca cat ggc atg gat gaa cta tac aaa tga 720  
Val Thr Ala Ala Gly Ile Thr His Met Asp glu Leu Tyr Lys  
225 230 235

(240) delete, since  
no amino  
acid  
is shown

VERIFICATION SUMMARY DATE: 02/07/2006  
PATENT APPLICATION: US/09/591,632C TIME: 09:01:24

Input Set : A:\34978a.txt  
Output Set: N:\CRF4\02072006\I591632C.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:541 M:254 E: No. of Bases conflict, LENGTH:Input:1427 Counted:1426 SEQ:3  
L:541 M:252 E: No. of Seq. differs, <211> LENGTH:Input:1427 Found:1426 SEQ:3  
L:747 M:252 E: No. of Seq. differs, <211> LENGTH:Input:446 Found:445 SEQ:11  
L:3593 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:39  
L:3869 M:254 B: No. of Bases conflict, LENGTH:Input:4500 Counted:4499 SEQ:45  
M:254 Repeated in SeqNo=45  
L:3961 M:252 E: No. of Seq. differs, <211> LENGTH:Input:7239 Found:7238 SEQ:45